



COSHH Risk Assessment No: 1001

Describe the activity or work process.
(Include how long and how often this is carried out and the quantity of substance used)

Using two part polyurethane glue and mixing the two parts together on site to provide a fixing of hygienic wall cladding to the building substrate. This process is carried out for each sheet fitted at each mix 6.5 /8Kg of material is used – generally 3 times per hour.

Location of process being carried out?

Site Conditions

Identify the persons at risk:

Employees (including trainees)

Contractors

Public (including students)

Name the substance involved in the process and its manufacturer.
(A copy of a current safety data sheet for this substance should be attached to this assessment)

HCD65 Part A & Part B

Classification (state the category of danger)



Very Toxic



Irritant



Extremely Flammable



Toxic



Sensitising



Highly Flammable



Corrosive



Biological



Flammable



Harmful



Oxidising



Environmental

Hazard Type

Gas Vapour Mist Fume Dust Liquid Solid Other (State)

Route of Exposure

Inhalation Skin Eyes Ingestion Other (State)

Workplace Exposure Limits (WELs) please indicate n/a where not applicable

Long-term exposure level (8hrTWA):
0.02mg/m³

Short-term exposure level (15 mins):
0.07mg/m³

State the Risks to Health from Identified Hazards

Harmful by inhilation
Irrating to eyes
Irrating to respiratory system
Irrating to skin

Control Measures: (for example extraction, ventilation, training, supervision). Include special measures for vulnerable groups, such as disabled people and pregnant workers. Take account of those substances that are produced from activities undertaken by another employer's employees.









Wear Appropriate Protective Clothing, wear PPE as defined below.
Do Not use in confined space
Ensure area is well ventilated

Is health surveillance or monitoring required?

Yes

No

Personal Protective Equipment (state type and standard)

 <input type="checkbox"/>		 <input type="checkbox"/>	
Dust mask		Visor	
 <input type="checkbox"/>		 <input checked="" type="checkbox"/>	Chemical resistant goggles
Respirator		Goggles	
 <input checked="" type="checkbox"/>	Plastic or Latex	 <input type="checkbox"/>	
Gloves		Overalls	
 <input type="checkbox"/>		 <input type="checkbox"/>	
Footwear		Other	

First Aid Measures

Inhalation – Remove operative to fresh air, keep warm, allow to rest. Obtain medical attention if breathing is difficult.
Skin – Remove operatives contaminated clothing . Wash with soap and water
Eye – Flush with water for at least 15 minutes under running water with eyelids held open and obtain medical attention.
Ingestion – DO NOT induce vomiting. Immediately rinse mouth and drink plenty of water. Obtain medical attention.

Storage

Keep product between 10 and 30 degrees Celcius and storage in dry and closed containers

Disposal of Substances & Contaminated Containers

Hazardous Waste Skip Return to Depot Return to Supplier Other

(If Other Please State):.....

Is exposure adequately controlled?

Yes

No

Risk Rating Following Control Measures

High

Medium

Low

Assessed by: 

Date: 15/11/10

Review Date: 15/11/11

MATERIAL SAFETY DATA SHEET - Part A

1. Identification of the substance / preparation and company.

Product name	HCD65
Supplier	HygienaClad
Address	55 Atherton Road Clayhall, Ilford Essex IG5 0PQ
Emergency telephone number	+44 208 220 7680

2. Composition / Information on Ingredients.

Hazardous ingredients	None.
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3. Hazards Identification.

Hazard warnings not required.

4. First Aid Measures.

Inhalation	No hazard
Skin	Remove contaminated clothing. Wash with soap and water.
Eye	Flush with water for at least 15 minutes under running water with eyelids held open and obtain medical attention.
Ingestion	DO NOT induce vomiting. Immediately rinse mouth and drink plenty of water. Obtain medical attention.

5. Fire-fighting Measures.

The material will not support combustion.

Small fires Use carbon dioxide, dry chemical, sand. **DO NOT** use water extinguisher.

Large fires Use foam or water fog. Keep containers cool by spraying with water.

Fumes evolved in a fire will be mainly oxides of carbon.

6. Accidental Release Measures.

Environmental precautions	Do not empty in to drains, sewers or waterways.
Clean up of spillages	Absorb on to earth or sand and remove to suitable place for subsequent disposal in a labelled sealable container.

7. Handling and Storage.

Handling	Observe the usual precautionary measures for chemicals
Storage	Keep containers tightly closed and dry. No special measures against fire or explosion are required.

8. Exposure Controls / Personal Protection.

No labelling is required for this material by the classification of the Packaging and Labelling of Dangerous Substances Regulations 1984 and corresponding EEC Directives.

Respiratory protection	Not normally required
Hand protection	Wear plastic or rubber gloves.
Eye protection	Wear chemical resistant goggles.
Body protection	Change contaminated clothing. Wash hands before breaks and at the end of work.

9. Physical and Chemical Properties.

Appearance	Thick buff paste
Odour	Almost odourless
pH	Neutral
Specific gravity	Approx.1.7 @ 20°C
Flash point	>200°C
Flammability	Non flammable
Vapour pressure @ 20C.KPa	Insignificant
Percentage non-volatiles	Above 98%
Viscosity @ 20°C	Approx 3600 @ 20°C

10. Stability and Reactivity.

Thermal decomposition	No decomposition detectable up to 200°C
Hazardous decomposition	Formation of combustible and noxious fumes during thermal decomposition.
Hazardous reaction	None observed.

11. Toxicological Information.

Oral	Ingestion of small amounts should not cause any serious long term problems.
Dermal	Not known.

12. Ecological Information.

Biodegradation	Expected to biodegrade.
Aquatic toxicity	Not known.

13. Disposal Consideration.

Disposal of the wet adhesive is governed by the Control of Pollution (Special Wastes) Regulations 1980.

Incinerate only in officially approved incinerator. Emptied containers should be disposed of at incineration plants for domestic or industrial waste.

14. Transport Information.

Not classified as hazardous under transport regulations.

Keep separate from foodstuffs.

15. Regulatory Information.

15/10/10

No labelling required for this material by The Classification, Packaging and Labelling of Dangerous Substances Regulations 1984 and corresponding EEC directives.

16. Other Information.

Other information

This adhesive should be used in accordance with the supplier's recommendations.

The information provided in this data sheet is based on our current knowledge of the product and is intended to describe it for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

MATERIAL SAFETY DATA SHEET - Part B

1. Identification of the substance / preparation and company.

Product name HCD65
Supplier HygienaClad
Address 55 Atherton Road
Clayhall, Ilford
Essex
IG5 0PQ

Emergency telephone number +44 208 220 7680

2. Composition / Information on Ingredients.

Ingredients	Range % Wt.	Symbol	R Phrases	EEC No
diphenylmethane-4.4-diisocyanate (MDI)	100%	Xn,Xi	R20 R36/37/38 R42	202-966-0

3. Hazards Identification.

Inhalation Harmful by inhalation. Irritating to eyes, respiratory system, and skin.

4. First Aid Measures.

Inhalation If aerosol or vapour has been inhaled in high concentrations, remove patient to fresh air, keep warm and allow to rest. Obtain medical attention if breathing is difficult

Skin Remove contaminated clothing. Wash with soap and water.

Eye Flush with water for at least 15 minutes under running water with eyelids held open and obtain medical attention.

Ingestion **DO NOT induce vomiting.** Immediately rinse mouth and drink plenty of water. Obtain medical attention.

5. Fire-fighting Measures.

The material will not support combustion.

Small fires Use carbon dioxide, dry chemical, sand. **DO NOT** use water extinguisher.

Large fires As above. Keep containers cool by spraying with water.

In case of fire possible formation of carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide.

6. Accidental Release Measures.

Cover with wet fluid binding material (sand, sawdust, etc). Transfer to labelled open-top container. Keep open and wet for 7-14 days, the waste can then be disposed of at approved landfill site.

Prevent from entering sewer or surface water drains.

7. Handling and Storage.

Handling	Observe the usual precautionary measures for chemicals. Ensure adequate ventilation or exhaust ventilation in the working area; if material is being heated above 50°C.
Storage	Keep containers tightly closed and dry. Avoid temperatures below 10°C and above 30°C.

8. Exposure Controls / Personal Protection.

Respiratory protection	MDI (MEL) 0.02mg/m ³ 8 Hour TWA. STEL 0.07 mg/m ³ (15 minutes TWA)
Hand protection	Required in inadequately ventilated workplaces. Wear plastic or rubber gloves.
Eye protection	Wear chemical resistant goggles.
Body protection	Change contaminated clothing. Wash hands before breaks and at the end of work.

9. Physical and Chemical Properties.

Appearance	Brown liquid
Odour	Musty – Earthy
Solubility	Soluble
Specific gravity	1.22 @ 20°C Approx.
Flash point	>200°C
Viscosity	200 cps @ 20°C Approx.
Percentage non-volatiles	Above 99%

10. Stability and Reactivity.

Thermal decomposition	Polymerises at about 260°C with evolution of CO ² .
Hazardous decomposition	No hazardous decomposition products when stored and handled correctly.
Hazardous reaction	Exothermic reaction with amines, alcohols, acids and alkalis. Reacts with water forming CO ² . Closed containers may rupture owing to increased pressure.

11. Toxicological Information.

LD50 Oral (rat)	> 500 mg/kg
Effect on eyes	Strong irritation, lacrymation, burning.
Effect on skin	Dehydration, possible sensitisation.

12. Ecological Information.

Ecotoxicity	Components may be harmful to aquatic life.
Bioaccumulation	Bioaccumulative potential of some components should be considered to be high due to low biodegradation rates.
Aquatic toxicity	Isocyanates; when in contact with water evolve CO ² and form insoluble solids. Do not allow to enter drains, sewers or waterways.

13. Disposal Consideration.

Disposal of the wet adhesive is governed by the Control of Pollution (Special Wastes) Regulations 1980.

Incinerate only in officially approved incinerator. Emptied containers should be disposed of at incineration plants for domestic or industrial waste.

14. Transport Information.

Not classified as hazardous for carriage under transport regulations.

Keep separate from foodstuffs.

15. Regulatory Information.

Contains 4-4'-Diphenylmethane – diisocyanate

Xn - Harmful

Risk Phrases

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42	May cause sensitisation by skin contact.
Contains:	Isocyanates, see information provided by the manufacturer.

Safety Phrases

S23	Do not breathe fumes.
S26	In case of contact with eyes rinse immediately with plenty of water, seek medical advice.
S28	After contact with skin wash immediately with plenty of soap and water.
S38	In case of insufficient ventilation wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell seek medical advice immediately (show the label if possible).

16. Other Information.

Other information This adhesive should be used in accordance with the suppliers recommendations.

The information provided in this data sheet is based on our current knowledge of the product and is intended to describe it for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.